

Serial No.. 10/027,859 Date . 09/25/01.
Examiner: Group Art Unit: 1653
Applicant: Evan Samuel Deneris
**Title:Reagents And Methods For The
Screening Of Compounds Useful In The
Treatment Of Neurological Diseases**
Atty. Docket No.. CASE-06816 Sheet 1 of 13

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catgaaccgtgagtatcttcatgtaaacagttctagATGGAAGACCCAGGTGGCGCTCTCTGGGGGAGAGGGTT 150
 * M E D P G C A P L G E R V 13

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P A P H P P O P H P L T A H S S S T P A P G W A G 38

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CCCGTGC~~G~~TCCCCCCCATCTCCCACCGCCCCAGTCCCCGGCAGCGATGAGACAGAGCCGGCACCTCCCAGCCCCCTG 450
P V R S P P S P T A Q S P A A M R Q S G T S Q P L 113

CTGATCAACATGTACCTACCAAGATCCCGTGGAGATGGCTTTTAAGGAAGGGAAAGGCCGAGCTGGGGCCG 525

—~~CCGCTTCGGTGTCTTCGCACTCCAGACCGG~~| 600

L S P A V Q K G S G Q I O L W Q F L L E L L A D R | 163
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R W G E R K S K P N M N Y D K L S R A L R Y Y Y D | 213
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Q P P P A H A H A A A A A A A A A A A A Q D G A L 263

Y K L P A G L A P L P F P G L S K L N L M A A S A 28

G V A P A G F S Y W P G P N A T A A A A A T A A L 31
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 aaaaaaaaaaaaaaaaaaaaaaaaaaaa

FIG. 1

RATPET	GSGQIQ-LWQ	FLLELLADRA	N--AGCIAWE	G-GHGEFFLT	--DPDEVARR	WGERK-SKPN	MNYDKLSSRAL	RYYYDKNIMS	KVH-GKRYAY	RF
MUSFL1	GSGQIQ-LWQ	FLLELLDSA	N--ASCITWE	G-TNGEFKMT	--DPDEVARR	WGERK-SKPN	MNYDKLSSRAL	RYYYDKNIMT	KVH-GKRYAY	KF
HUMERG	GSGQIQ-LWQ	FLLELLSDSS	N--SSCITWE	G-TNGEFKMT	--DPDEVARR	WGERK-SKPN	MNYDKLSSRAL	RYYYDKNIMT	KVH-GKRYAY	KF
DROETS3	GSGQIQ-LWQ	FLLELLDSN	N--ASCITWE	G-TNGEFKLT	--DPDEVARR	WGERK-SKPN	MNYDKLSSRAL	R-----	--	--
DROETS6	GSGQIQ-LWQ	FLLELLADSS	N--ANALWE	G-QSGEFRLI	--DPDEVARR	WGKRK-NKPK	MNYEKLSRGL	RYYYDKNIMT	KVH-GKRYAY	KF
RATETS1	GSGPIQ-LWQ	FLLELLTDKS	C--QSFISWT	G-DGWEFKLS	--DPDEVARR	WGKRK-NKPK	MNYEKLSRGL	RYYYDKNIMT	KTA-GKRYVY	RF
VEETS	GSGPIQ-LWQ	FLLELLTDKS	C--QSFISWT	G-DGWEFKLS	--DPDEVARR	WGKRK-NKPK	MNYEKLSRGL	RYYYDKNIMT	KTA-GKRYVY	RF
MUSETS2	GSGPIQ-LWQ	FLLELLDSKS	C--QSFISWT	G-DGWEFKLA	--DPDEVARR	WGKRK-NKPK	MNYEKLSRGL	RYYYDKNIMT	KTS-GKRYVY	RF
DROPNT1	GSGPIQ-LWQ	FLLELLDTKT	C--QSFISWT	G-DGWEFKLT	--DPDEVARR	WGTRK-NKPK	MNYEKLSRGL	RYYYDKNIMT	KTA-GKRYVY	RF
MUSER71	HRCPIQ-LWQ	FLLELLDA	R--SSCIRWT	G-NSREFQLC	--DPKEVARL	WGKRK-RKPG	MNYEKLSRGL	RYYYDKNIMT	KSG-GRKYTY	RF
DROELG	NNGQVQ-LWQ	FLLELTDCE	H--TDVIEW	G-TEGEFKLT	--DPDRVARL	WGEKK-NKPA	MNYEKLSRGL	RYYYDKNIMT	KVS-GKRFAY	KF
MUSGABP	NNGQIQLWQ	FLLELTDKD	A--RDCISWV	G-DEGEFKLN	--OPELVAQK	WGORK-NKPT	MNYEKLSRGL	RYYYDKNIMT	KVQ-GKRFVY	KF
HUMERM	RRGSLO-LWQ	FLLTLLDDPA	N--AHFIWT	G-RGMEEFKLI	--EPEEVARR	WGIQR-NRPA	MNYDKLSSRL	RYYYEKGIMQ	KVA-GERVYV	KF
HUMER81	RRGSLO-LWQ	FVALLDDPA	N--SHFIWT	G-RGMEEFKLI	--EPEEVARR	WGIQR-NRPA	MNYDKLSSRL	RYYYEKGIMQ	KVA-GERVYV	KF
HUME1AF	RRGALQ-LWQ	FVALLDDPT	N--AHFIWT	G-RGMEEFKLI	--EPEEVARL	WGIQR-NRPA	MNYDKLSSRL	RYYYEKGIMQ	KVA-GERVYV	KF
MUSPEA3	RRGALQ-LWQ	FVALLDDPT	N--AHFIWT	G-RGMEEFKLI	--EPEEVARL	WGIQR-NRPA	MNYDKLSSRL	RYYYEKGIMQ	KVA-GERVYV	KF
HUMPEP1	GSRQIQ-LWQ	FLLELLQKE	F--RHVIWQ	QGEYGEFVTK	--DPDEVARL	WGRRK-CKPQ	MNYDKLSSRL	RYYYEKGIMQ	KTK-GKRFVY	KF
HUMELK1	MDPSVT-LWQ	FLLOLLREQN	N--GHIISWT	SRDGGEFFKLV	--DAEEVARL	WGLRK-NKTN	MNYDKLSSRL	RYYYDKNIMT	KVS-GQKFVY	KF
MUSSAP1	MDSAIT-LWQ	FLLQLQEPQ	N--EHMICWT	SNDG-EFKL	--QAEEVARL	WGIRK-NKPN	MNYDKLSSRL	RYYYDKNIMT	KVN-GQKFVY	KF
MUSNET	MESAIT-LWQ	FLLHLLDQK	H--EHLICWT	SNDG-EFKL	--KAEEVAKL	WGLRK-NKTN	MNYDKLSSRL	RYYYDKNIMT	KVI-GQKFVY	KF
DROE74A	REGSTTLYWE	FLLKLQDRE	Y-CPRFIKW	NREKGVFRLV	--DSKAVSRL	WGMHK-NKPD	MNYETMGRAL	RYYYQRGILA	KVD-GQRVY	QF
MUSELF1	GKGNTIYLWE	FLLALLQDKA	T-CPKYYKWT	OREKGIFKLV	--DSKAVSRL	WGKHK-NKPD	MNYETMGRAL	RYYYQRGILA	KVE-GQRVY	QF
HUMERF1	GKGNTTLYWE	FLLDLQDKN	T-CPRYIKWT	OREKGIFKLV	--DSKAVSKL	WGKHK-NKPD	MNYETMGRAL	RYYYQRGILA	KVE-GQRVY	QF
HUMNERF1	GKGNTTLYWE	FLLDLQDKN	T-CPRYIKWT	OREKGIFKLV	--DSKAVSKL	WGKHK-NKPD	MNYETMGRAL	RYYYQRGILA	KVE-GQRVY	QF
DROETS4	GGGSHIHLWQ	FLLELLASQ	V-NGTAIRWI	DRSKGIFKIE	--DSVRVAKL	WGRK-NRPA	MNYDKLSSRL	RYYYKKGIMK	KTERSQRVY	QF
HUMESX	HAPRGTHLWE	FIRDILIHPE	L-NEGILMKWE	NRHEGVFFKL	--RSEAVAQL	WGQK-KNSN	MNYEKLSRAM	RYYYKREILLE	RVD-GRRVY	KF
DROYAN	PNTNGRLLWD	FLOQLLNDRN	QKYSDDLIWK	CRDTGUVFKIV	--DPLAGLAKJ	WGIQR-NHLS	MNYDKMSRAL	RYYYRNILR	KVQ-GERHCV	QF
MUSPU1	SKKKIR-LYQ	FLLDLRSGD	MK--DSIWWV	DKDKGTQFS	SKHKEALAH	WGIQKGNRKK	MNYQKMARAL	RNYGKTGEVK	KVKK--KLTY	QF
HUMTEL	RIACRLLWD	YYVQLLSDS-	DKEISKIPRIV	-RYENFIRWE	--DPNLGLARI	WGNHK-NRTN	MNYEKMSRAL	RHYYKLNIR	KEP-GQRLLF	RF

FIG. 2A

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Atty. Docket No. CASE-06816 Sheet 3 of 13

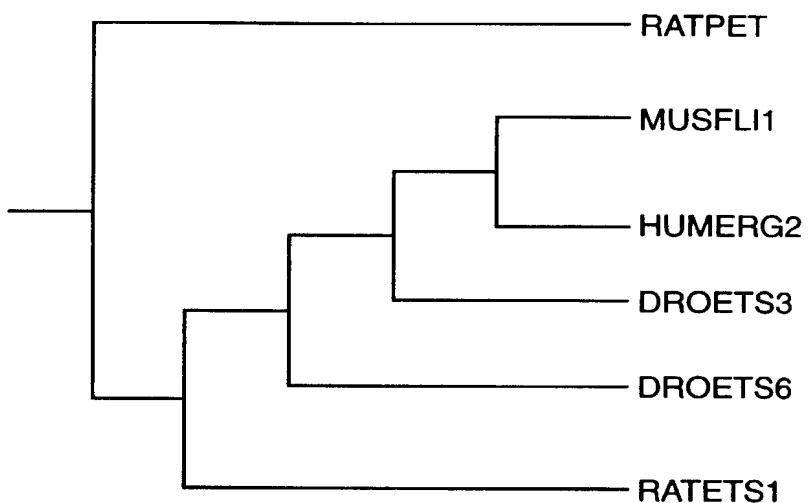
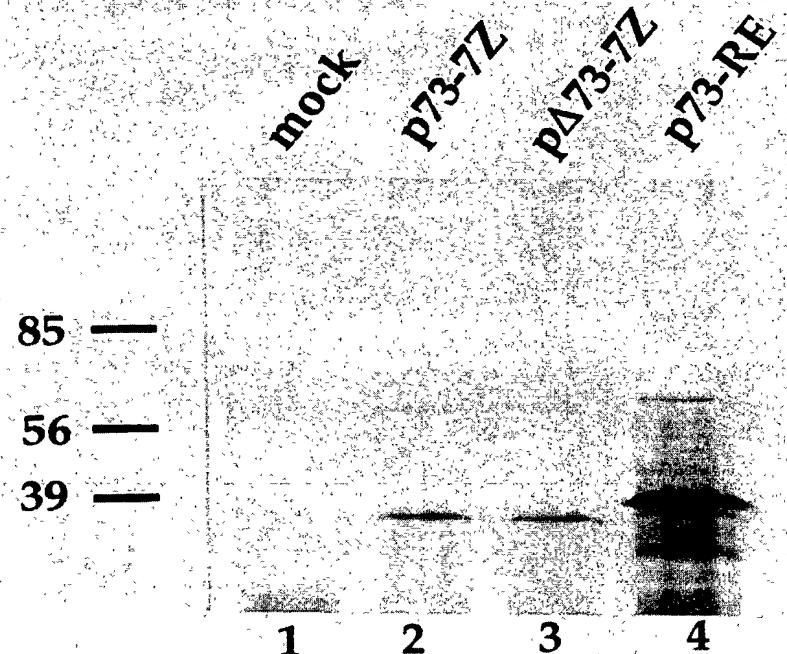


FIG. 2B

A



B

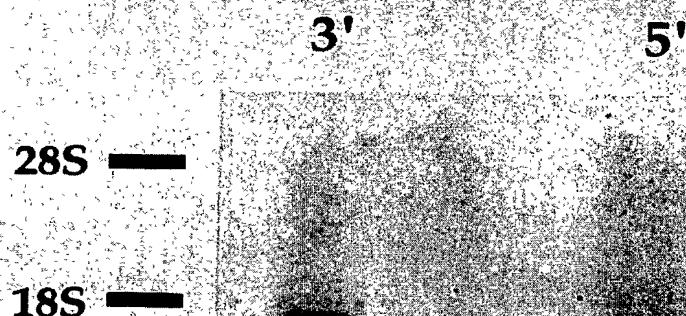


FIG. 3

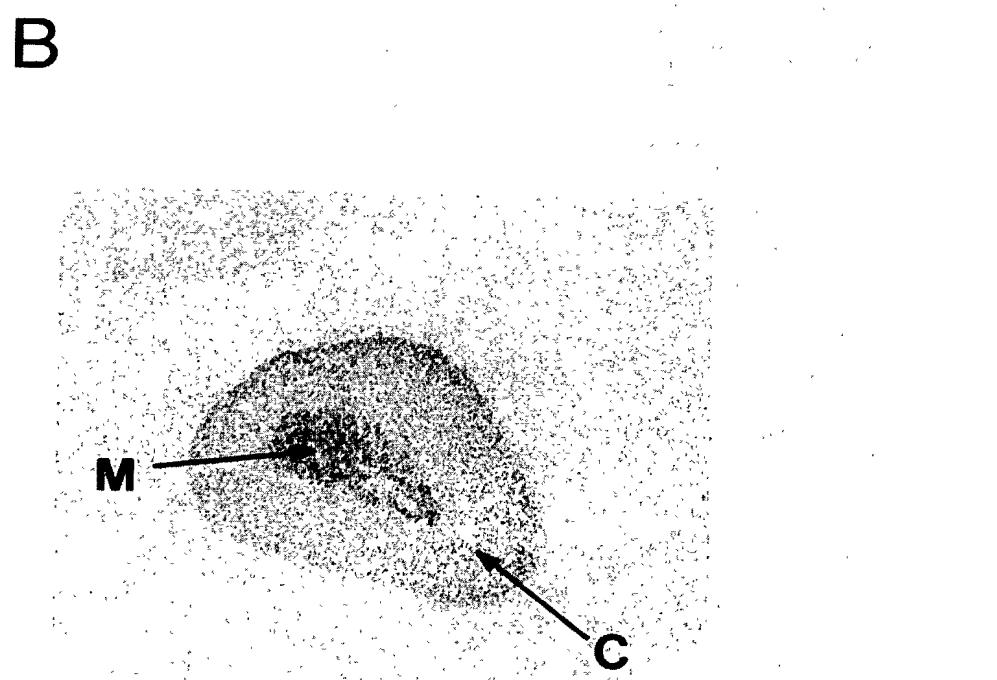
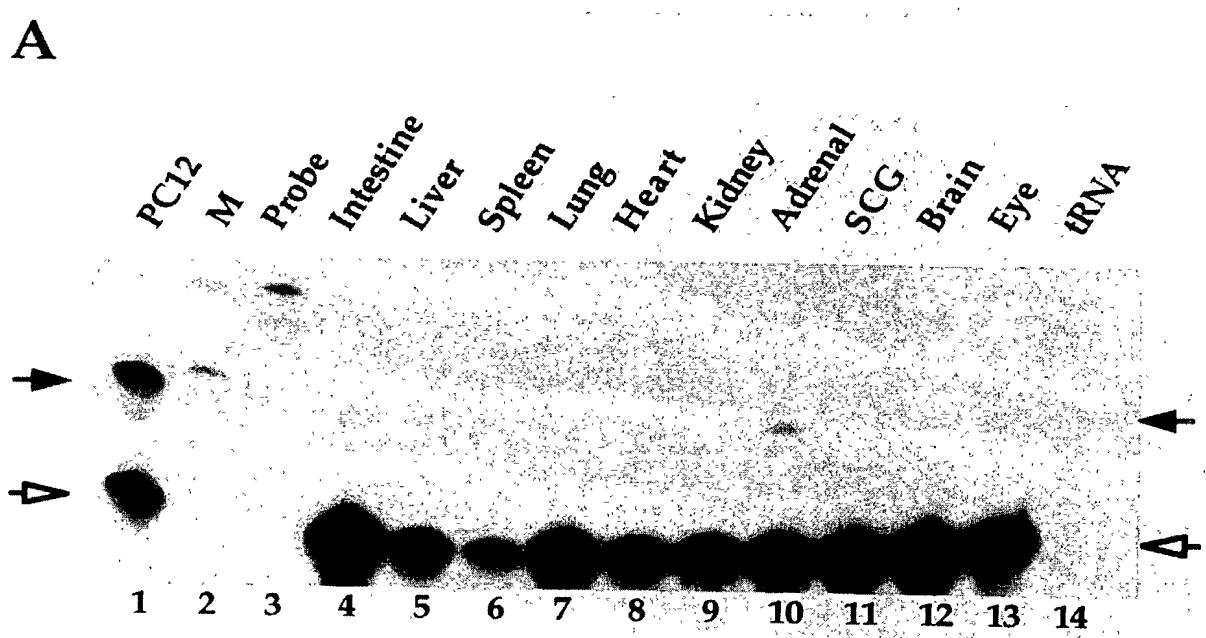


FIG. 4

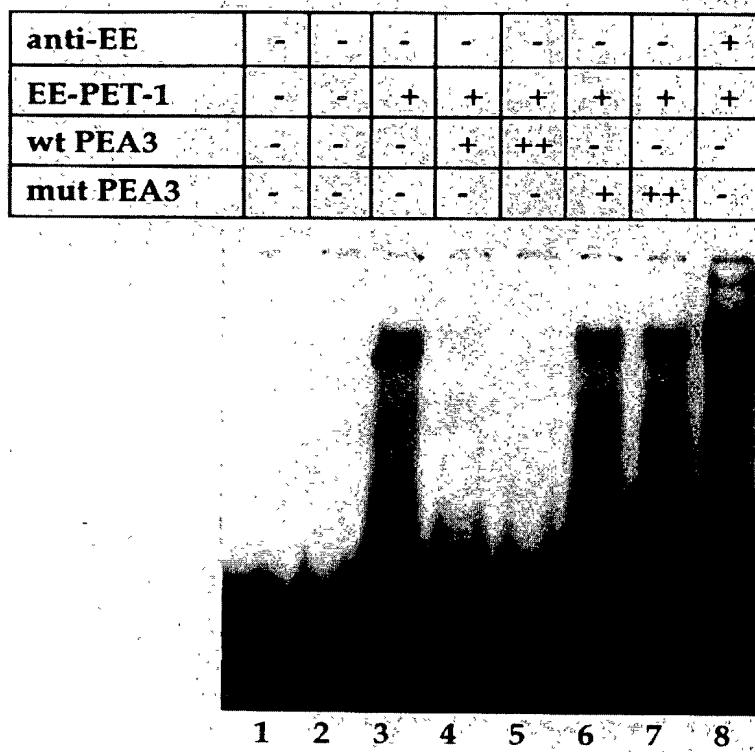


FIG.5

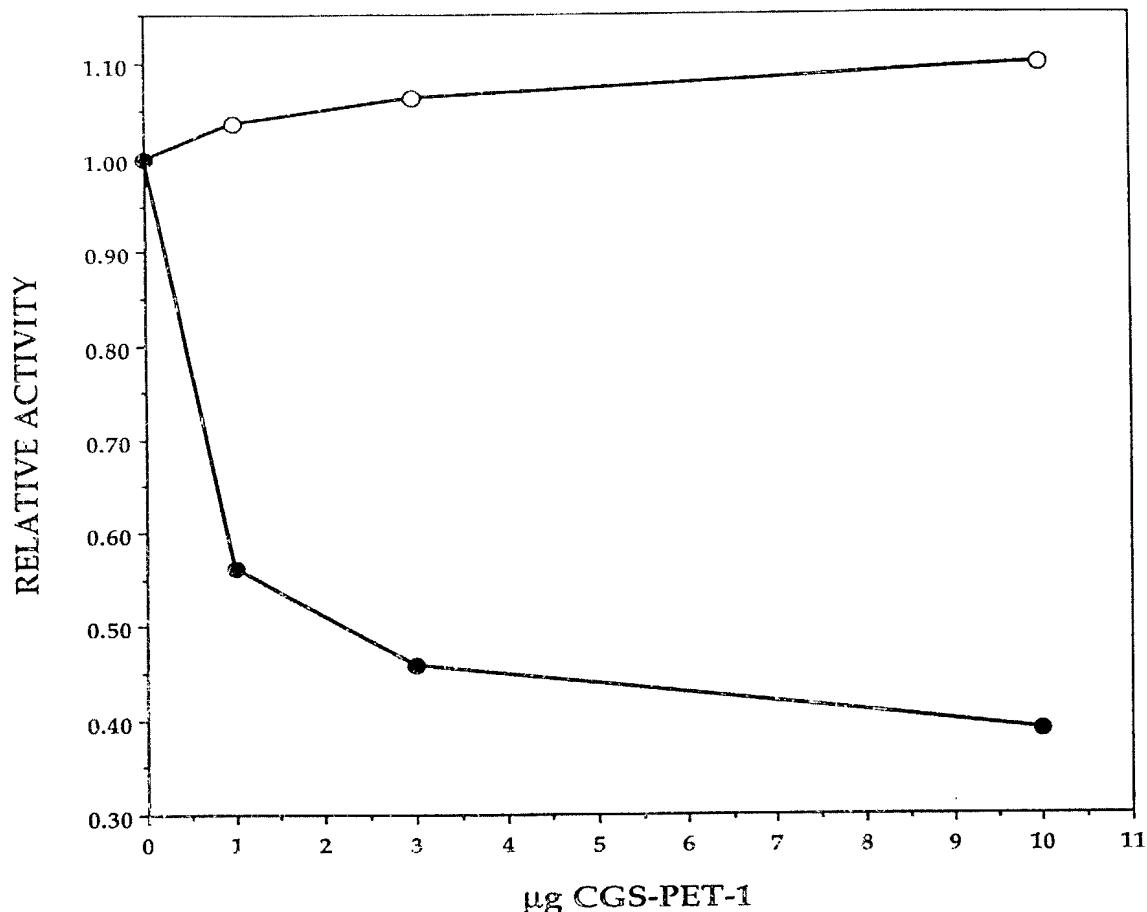


FIG. 6

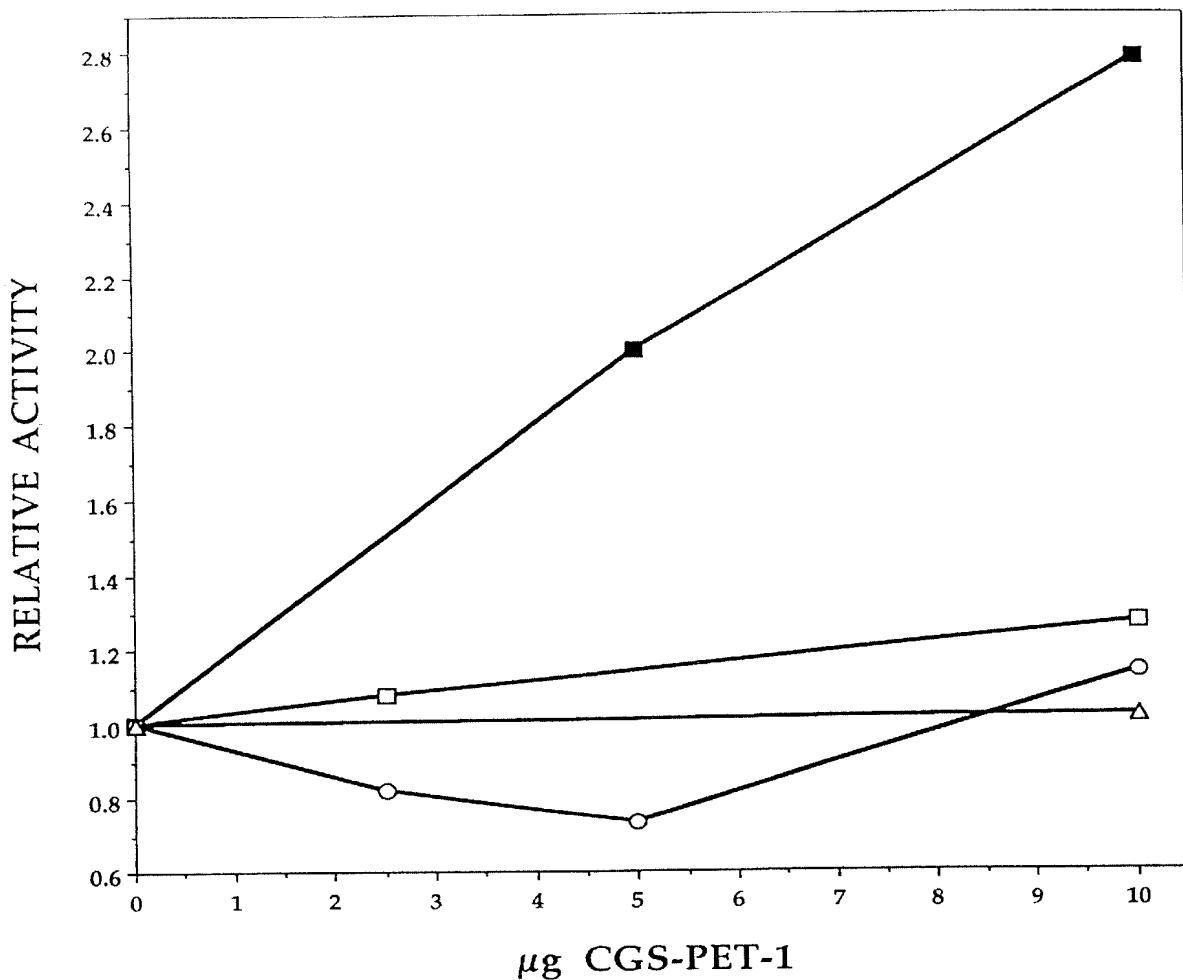


FIG. 7

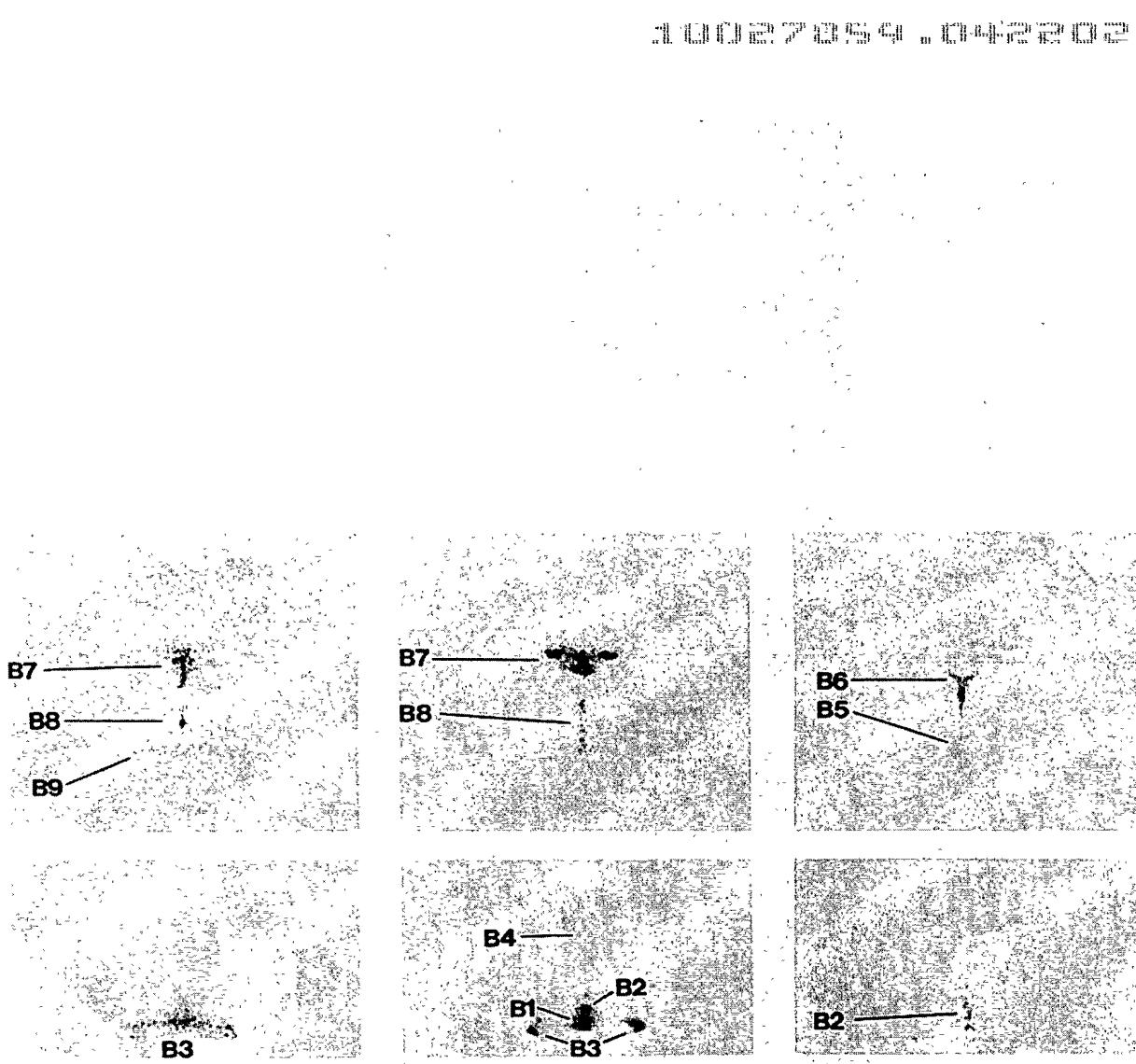


FIG. 8

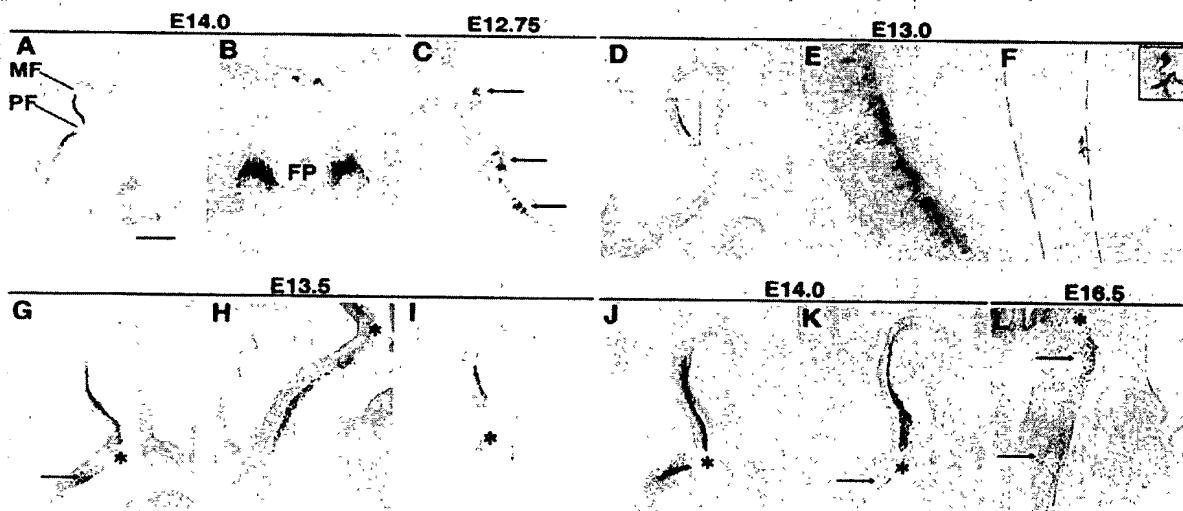


FIG. 10

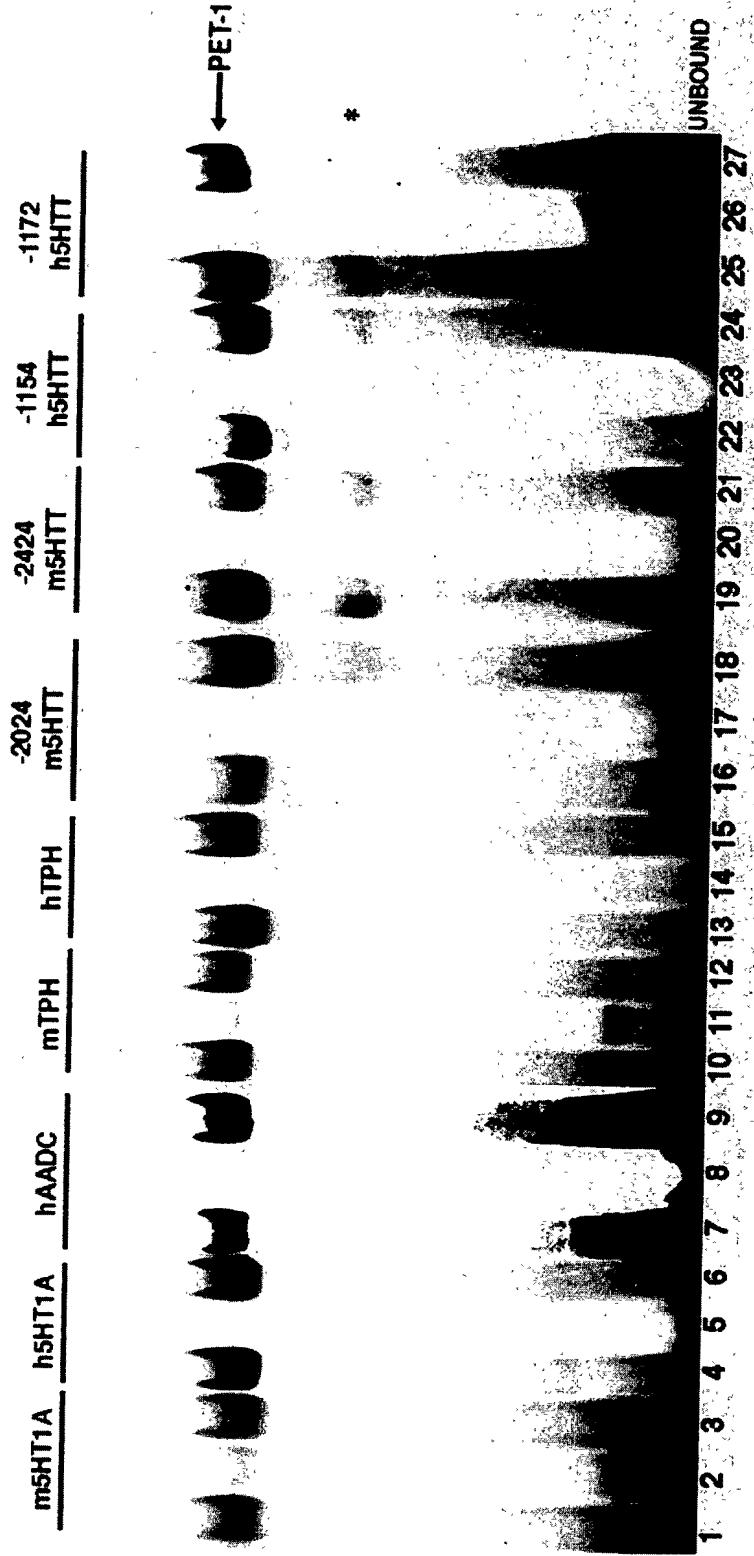


FIG. 1

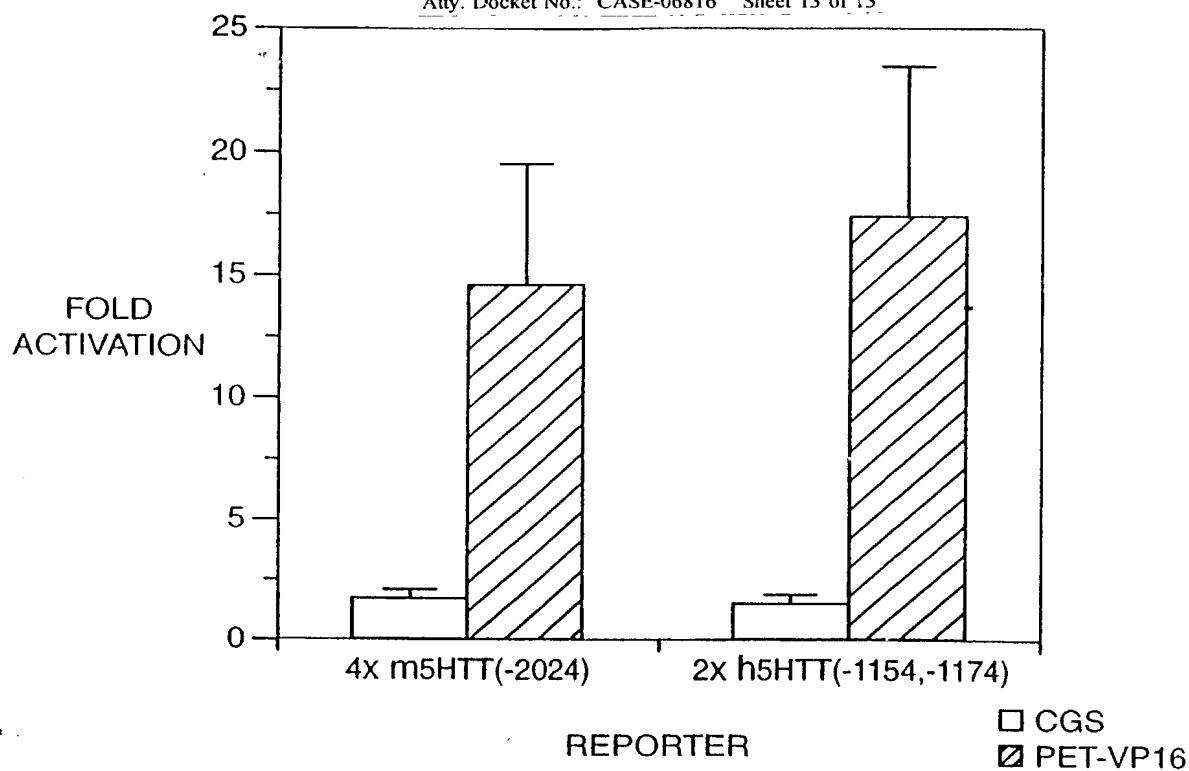


FIG. 12A

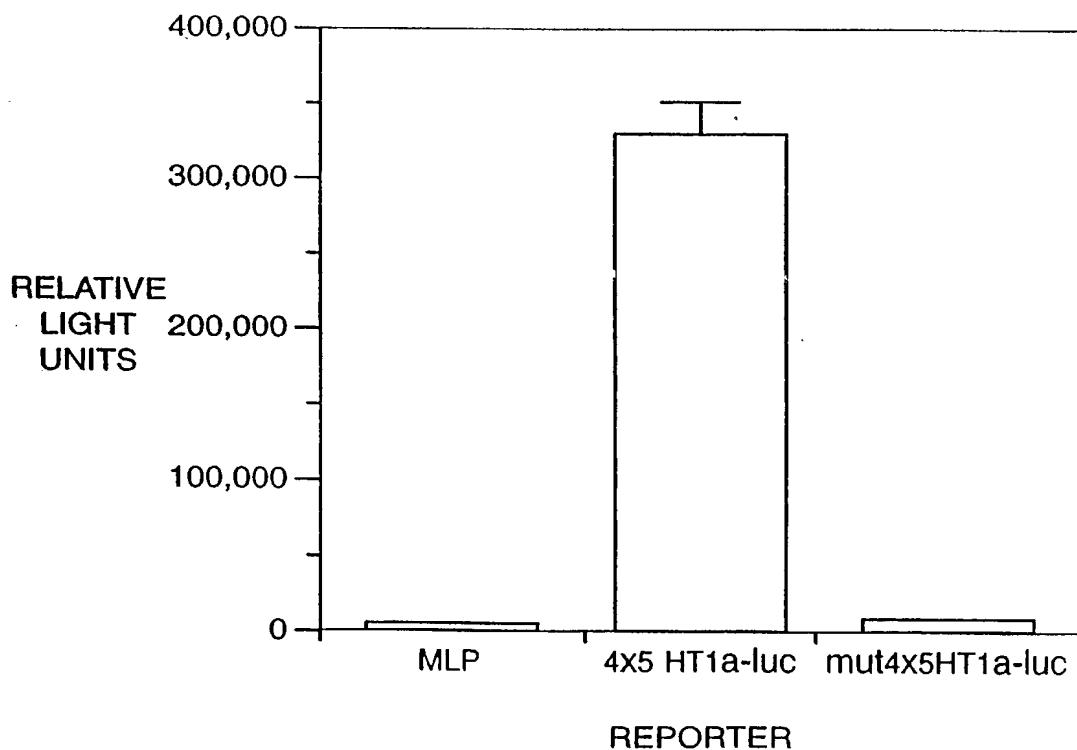


FIG. 12B